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FILE COVERS 1967 - 14 Nov 1998 (981114/ED) VOL 129 ISS 21

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=> s (wendel, albrecht and hartung, thomas)/au

202 WENDEL, ALBRECHT/AU
27 HARTUNG, THOMAS/AU
L1 9 (WENDEL, ALBRECHT AND HARTUNG, THOMAS)/AU

=> d ti 1-9

L1 ANSWER 1 OF 9 CA COPYRIGHT 1998 ACS

TI The usage of frozen blood for blood response tests

L1 ANSWER 2 OF 9 CA COPYRIGHT 1998 ACS

TI Granulocyte-macrophage colony-stimulating factor and IFN-.gamma. restore the systemic TNF-.alpha. response to endotoxin in lipopolysaccharide-desensitized mice

L1 ANSWER 3 OF 9 CA COPYRIGHT 1998 ACS

TI In vitro prevention and reversal of lipopolysaccharide desensitization by IFN-.gamma., IL-12, and granulocyte-macrophage colony-stimulating factor

L1 ANSWER 4 OF 9 CA COPYRIGHT 1998 ACS

TI Detection of pyrogens using human whole blood

L1 ANSWER 5 OF 9 CA COPYRIGHT 1998 ACS

TI Pyrogen test method

L1 ANSWER 6 OF 9 CA COPYRIGHT 1998 ACS

TI Endotoxin-inducible granulocyte-mediated hepatocytotoxicity requires adhesion and serine protease release

L1 ANSWER 7 OF 9 CA COPYRIGHT 1998 ACS

TI Control of fecal peritoneal infection in mice by colony-stimulating factors

L1 ANSWER 8 OF 9 CA COPYRIGHT 1998 ACS

TI Effect of granulocyte colony-stimulating factor treatment on ex vivo blood cytokine response in human volunteers

L1 ANSWER 9 OF 9 CA COPYRIGHT 1998 ACS

TI Granulocyte colony-stimulating factor treatment protects rodents against lipopolysaccharide-induced toxicity via suppression of systemic tumor necrosis factor-.alpha.

=> d 1, 4, 5 bib,ab,kw,it

L1 ANSWER 1 OF 9 CA COPYRIGHT 1998 ACS

AN 129:92589 CA

TI The usage of frozen blood for blood response tests

IN **Wendel, Albrecht; Hartung, Thomas**

PA Wendel, Albrecht, Germany; Hartung, Thomas; DPC Biermann G.m.b.H.

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

PI EP 851231 A1 19980701

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO
AI EP 97-122072 19971215
PRAI DE 96-19654266 19961223
DT Patent
LA German
AB The invention concerns the application of frozen blood or blood prepns. for testing blood response via measuring blood factors from leukocytes triggered by immunoactivators such as pyrogens. Blood prepns. are e.g. leukocytes; the frozen material contains cryopreservation substances, and blood coagulation factors. Thus citrate blood was withdrawn from healthy patients, mixed with 10% dimethylsulfoxide, 100 .mu.L aliquotes were dispensed into Eppendorf tubes and frozen to -70.degree.C. After thawing lipopolysaccharide of *Salmonella abortus equi* was added as pyrogen; after incubation in CO₂ the tubes were centrifuged; the supernatant was used to det. IL-1.beta. in an ELISA. The amt. of IL-1.beta. was also measured when different amts. of azathioprin or dexamethason were added to the immunoactivated system.
ST frozen blood cryopreservation immunoresponse test; blood response test immunoactivation cryopreservation
IT Blood
Blood analysis
Blood preservation
Cryopreservation
ELISA (immunosorbent assay)
Leukocyte
Melting
Pyrogens
Salmonella abortivaequina
(usage of frozen blood for blood response tests)
IT Interleukin 1.beta.
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(usage of frozen blood for blood response tests)
IT Lipopolysaccharides
Toxins
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(usage of frozen blood for blood response tests)
IT Coagulation factors (blood)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(usage of frozen blood for blood response tests)
IT Cytokines
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(usage of frozen blood for blood response tests)
IT 50-02-2, Dexamethasone 446-86-6, Azathioprin
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(usage of frozen blood for blood response tests)
IT 67-68-5, Dimethylsulfoxide, biological studies 77-92-9, Citric acid, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(usage of frozen blood for blood response tests)
L1 ANSWER 4 OF 9 CA COPYRIGHT 1998 ACS
AN 126:203610 CA
TI Detection of pyrogens using human whole blood
AU **Hartung, Thomas; Wendel, Albrecht**
CS Biochemical Pharmacology, University of Konstanz, Germany
SO In Vitro Toxicol. (1996), 9(4), 353-359

CODEN: IVTOE4; ISSN: 0888-319X

PB Liebert
DT Journal
LA English

AB Stimulation of human whole blood with various inflammogens to release endogenous pyrogens from leukocytes was used as an in vitro model for detection of compds. capable of inducing fever. When exposed to various concns. of *Salmonella abortus equi* endotoxin lipopolysaccharide (LPS), blood incubations released several pyrogenic factors within 24 h, including interleukin 1.beta. (IL-1.beta.). The lower limit for quantitation of LPS was 10 pg/mL, with IL-1.beta. as readout. In healthy donors, the interindividual variance of LPS-stimulated IL-1.beta. release was 23%. Not only endotoxin, but also further bacterial components such as muramyl dipeptide, various lipoteichoic acids, and the superantigen *staphylococcus enterotoxin B* induced a qual. similar reaction. The authors used blood from volunteers who had taken the antipyrogenic drug aspirin as a test for the reliability of this system: the ex vivo LPS-stimulated PGE2 release but not the formation of IL-1.beta. in blood from these donors was inhibited for several hours. The authors propose the evaluation of this system as an in vitro method alternative to the rabbit pyrogen test.

ST pyrogen detection blood; lipopolysaccharide pyrogen detection blood
IT Blood
Leukocyte
Pyrogens
Salmonella abortivoequina
(detection of pyrogens using human whole blood)

IT Lipopolysaccharides
RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ANST (Analytical study); BIOL (Biological study)
(detection of pyrogens using human whole blood)

IT Endotoxins
RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BIOL (Biological study); PROC (Process)
(detection of pyrogens using human whole blood)

IT Interleukin 1.beta.
Interleukin 6
Tumor necrosis factor .alpha.
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(detection of pyrogens using human whole blood)

IT 363-24-6, PGE2
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(detection of pyrogens using human whole blood)

L1 ANSWER 5 OF 9 CA COPYRIGHT 1998 ACS
AN 126:2952 CA
TI Pyrogen test method
IN **Wendel, Albrecht; Hartung, Thomas**
PA DPC Biermann Gmbh, Germany
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
PI EP 741294 A2 19961106
DS R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE
AI EP 96-106443 19960424
PRAI DE 95-19516247 19950503
DT Patent
LA German

AB For examg. substances for pyrogenic activity, whole blood-contg. preps. are brought into contact with the substances to be tested, and then the preps. are examd. for the formation of endogenous pyrogens. The preps. can contain, e.g., coagulation inhibitors as well as diluents such as cell culture media or physiol. saline soln. Examples are given for tests that measure the formation of the endogenous pyrogens interleukin-1, interleukin-6, tumor necrosis factor, or PGE2, and a time course is shown for the lipopolysaccharide-induced formation of these endogenous pyrogens in whole blood.

ST pyrogen test whole blood; endotoxin pyrogen test whole blood; interleukin formation pyrogen test whole blood; PGE2 formation pyrogen test whole blood; tumor necrosis factor formation pyrogen test

IT Enterotoxins
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(A; pyrogen test method using whole blood preps.)

IT Enterotoxins
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(B; pyrogen test method using whole blood preps.)

IT Tissue culture (animal)
(culture media; pyrogen test method using whole blood preps.)

IT Blood
Gram-negative bacteria
Gram-positive bacteria (Firmicutes)
Immunostimulants
Pyrogens
Staphylococcus aureus
(pyrogen test method using whole blood preps.)

IT Endotoxins
Hemolysins O
Lipopolysaccharides
Phytohemagglutinins
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(pyrogen test method using whole blood preps.)

IT Interleukin 1
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(pyrogen test method using whole blood preps.)

IT Interleukin 6
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(pyrogen test method using whole blood preps.)

IT Tumor necrosis factors
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(pyrogen test method using whole blood preps.)

IT 9041-38-7D, Teichoic acid, lipo- 16561-29-8, PMA 53678-77-6, Muramyl dipeptide
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(pyrogen test method using whole blood preps.)

IT 50-78-2, Aspirin
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pyrogen test method using whole blood preps.)

IT 77-92-9, Citric acid, biological studies 9005-49-6, Heparin,

biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
 (pyrogen test method using whole blood preps.)
IT 363-24-6, Prostaglandin E2
RL: MFM (Metabolic formation); BIOL (Biological study); FORM
(Formation, nonpreparative)
 (pyrogen test method using whole blood preps.)

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